

Docket No. 55573 (71526)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Mishina, et al.

SERIAL NO.:

09/786,309

GROUP: 1635

FILED:

June 6, 2001

EXAMINER: Nguyen, L

FOR:

HIGHLY EFFICIENT MUTAGENESIS METHOD WITH THE USE OF

**PSORALEN DERIVATIVES** 

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

Sir:

## CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted by facsimile to Group 1600 of the U.S. Patent & Trademark Office by facsimile number 703-872-9306 on <u>December 29, 2001</u>.

Ву: \_\_\_\_

John R. Alexander, Ph.D.

## **AMENDMENT**

In response to the Office Action issued on August 29, 2001, Applicants request that the above-identified application be amended as follows.

## IN THE CLAIMS

Please add new claims 8-22 as follows:

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(new) A mutagenesis/method of a gene of a vertebrate animal, comprising the

steps of:

a) treating a germ cell of the vertebrate animal with a psoralen derivative;

b) intadiating the germ cell with a high energy beam; and

c) subjecting the irradiated germ cell to artificial fertilization to induce mutagenesis

in an embryo.

9. (new) A method according to claim 8, wherein the germ cell is sperm.